

AIM Ann Report
1940 to 1941

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ANNUAL REPORT
OF THE
AUCKLAND
INSTITUTE
AND MUSEUM
1940-41



For presentation at the Annual General
Meeting to be held on 4th June, 1941.

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1941

AIM Ann Report 1940 to 1941

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Hon. Curator of English China ..	C. REGINALD FORD, F.R.I.B.A.
Hon. Curator of Oriental Collections	CAPTAIN G. HUMPHREYS- DAVIES.
Hon. Entomologist	W. H. HEMINGWAY.
Hon. Photographer	J. D. RICHARDSON.
Assistant Director	A. W. B. POWELL, F.R.S.N.Z.
Botanist	LUCY M. CRANWELL, M.A., F.L.S.
Ethnologist	V. F. FISHER.
Assistant Ethnologist	OLWYN M. TURBOTT.
Assistant Zoologist	E. G. TURBOTT, M.Sc.
Education Officer	R. A. SCOBIE, B.A.
Librarian	M. C. CLELAND.
Bookkeeper and Typist	MURIEL PORTER.
Recorder and Typist	JOYCE BARTLEY.
Mechanic	EDWIN LEECE.
Taxidermist	C. W. DOVER.
Cabinetmaker and Joiner	FRANK QUAYLE.
Custodian	J. L. DAVY, D.C.M.

Attendants:

E. PIERARD, J. STEWART, H. G. HOLLAMBY,
S. M. BETTERIDGE, F. LAWTON.

OFFICERS
OF THE
AUCKLAND INSTITUTE
AND
MUSEUM
1940-1941

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Director:

GILBERT ARCHEY, O.B.E., M.A., F.R.S.N.Z.

Reports to Members.

President.

The normal services of the Auckland Institute and Museum covering educational, scientific and cultural activities have been maintained in spite of the war, and there has been excellent public appreciation of these services. An additional activity on the educational side was the formation of an art class for school children, the object being to encourage the pictorial rendering of natural history subjects.

It gives great satisfaction to record the continued high standard of work of the Director and Staff. They are mainly responsible for the high reputation this institution has gained and maintained in the Museum World. There are a number of enthusiastic members outside the staff who continue to help us in a voluntary and honorary capacity. To them we extend our grateful thanks and look forward to a further continuance of their valuable assistance.

Membership.—At the beginning of the year there was a roll of 599 members. During the year we have lost by death, resignation and deletion 42 members, but have gained 16 new members, so the year concluded with a roll of 573.

Congratulations.—Congratulations are extended to Dr. D. B. Macleod for the award of the Hector Medal and to Dr. R. S. Allan and Mr. A. W. B. Powell for their election to Fellowship of the Royal Society of New Zealand.

Obituary.—We have to record with much regret the loss by death of the following members: Miss D. Pound, Messrs. Sinclair, G. C. W. Morris, E. D. Ashton, W. Coltman, R. W. White, T. F. Wallace, H. E. R. S. Wily, T. Philcox, A. W. Gillies, J. W. Brame, A. Buchanan, C. J. Shaw, F. N. Andrews, E. A. Craig, P. Brodie, and R. F. Blair.

Council.—During the year seven well-attended meetings have been held. There has been no change in elected members.

Finance.—Receipts were approximately the same as last year: members' subscriptions have been well maintained and again we have received welcome special donations from members and friends. We have spent less on specimens and our general expenses have not had to include heavy repairs as in last year.

The amount carried forward is nearly £100 more than in 1940, but accounts for printing and for overseas books not yet arrived have to be provided for. The Chairman of the Trust Board reports elsewhere on the invested funds.

The Museum.—During the past four years this institution has participated in a Carnegie Corporation grant for extending educational activities in museums. While part was devoted to experiments in exhibition and in preparing displays which were interchanged with other museums, the main endeavour was an extended school service conducted by a teacher selected and partly remunerated by the Education Department. So successful has this experiment proved that the Minister of Education has decided to continue the school service as a part of the national educational system. This liberal decision will receive wide approval. The Museum cordially welcomes this opportunity of participating in the national educational service and also acknowledges the benefit to itself of co-operating with teachers and schools in their important work. Our thanks are due to the Carnegie Corporation for providing the means for the successful experiment and to the members and officers of the Council for Educational Research for their enterprising help in administering the fund.

The present time is appropriate for a record indicating the Museum's earlier educational activities which were so happily reinforced and extended by the Carnegie grant, and a brief record of twelve years' school service forms part of the general report.

During the year when it seemed that Walker's Bush, a valuable scenic area in the Waitakere Hills might be sold for sawmilling, the Botanical Society made representations to the Centennial Memorial Committee and raised funds which have helped in securing the bush as a reserve. Members will wish to join with me in congratulating Miss Cranwell, who initiated the proposal, and the Botanical Society on their successful endeavours.

We are far from the turmoil and destruction of war, though certain precautions have been taken to meet emergencies. We deplore the losses our sister institutions at Home have experienced, but while we sympathise with our colleagues in what they are enduring, even more do we admire their courage, perseverance and enterprise in developing and extending their services despite the dangers and hazards of the times. Such confidence is of the stuff that makes victory.

W. A. FAIRCLOUGH.

AIM Ann Report 1940 to 1941

Chairman, Trust Board.

The following statement sets out the movement of investments during the year:—

	£	s.	d.
Awaiting Investment 31/3/40	809	0	0
Mortgages repaid	2,948	19	0
Debentures repaid	500	0	0
Bequest paid (David Goldie)	1,000	0	0
Receiver Land Revenue	1	15	1
Life Member's Subscription	10	10	0

New Investment during year:

Mortgage	2,000	0	0
Local Body Debentures	2,200	0	0
N.Z. Inscribed Stock	1,000	0	0

Total Investment Funds:

(a) Invested	31,347	14	4
(b) Awaiting Investment	34	1	6

Funds have been closely invested during the period and it will be noted that there is a sum of only £34/1/6 awaiting investment. There is only one security at the present time that is not regarded by the Trustees as completely satisfactory.

V. J. LARNER.

Director.

Institute Meetings.—Seven evening addresses, two of which were delivered by visiting lecturers, were given during last winter's session. Owing, no doubt, to war atmosphere, we sometimes had smaller attendances than we could have wished. Members' thanks for a very interesting series of lectures are due to:—

Professor F. P. Worley, M.A., D.Sc.—“Chemical Warfare.”

Mr. A. W. B. Powell, F.R.S.N.Z.—“Shellfish Uses Down the Ages.”

Professor T. D. J. Leech, B.Sc., B.E.—“The Growth of Aviation.”

Dr. Raymond W. Firth—“Malay Medicine and Magic.”

Dr. E. Marsden, C.B.E., M.C., F.R.S.N.Z.—“Science in Relation to War.”

Dr. D. Brown—“Radio Methods for Direction Finding and Navigation.”

Dr. J. Hardie Neil, D.S.O.—“Speech and Hearing.”

Three ordinary meetings were also held, papers being read by Rev. G. I. Laurensen, Dr. L. H. Briggs, and Messrs. J. C. Neill, A. W. B. Powell and G. Archey.

Sunday Lectures.—These lectures, with the exception of Mr. McKinnon's Flower Show address, were given by members of the staff as a "Museum Exhibit Series," an innovation that was well received.

Mr. G. Archey—"Maori Houses and Canoes."

Miss Olwyn Rutherford—"Maori Clothing."

Mr. R. A. Scobie—"Prehistoric Man."

Mr. A. W. B. Powell—"Our Shellfish Collections."

Mr. E. G. Turbott—"The Last Forest Birds."

Mr. V. F. Fisher—"The American Indian."

Miss L. M. Cranwell—"Native Plant Products: Flax, Gum, Timber."

Miss Betty Molesworth—"September Wildflowers."

Mr. R. A. Scobie—"Migratory Birds."

Mr. A. D. McKinnon—"Waipoua Forest."

Mr. W. H. Hemingway—"Glimpses of Insect Life."

Anthropology and Maori Race Section.—Chairman, Mr. G. R. Brookes; Hon. Secretary, Mr. R. A. Scobie.

The Committee felt that in view of the demands on members which might arise from the war, it would be better to have a short, concentrated syllabus. The wisdom of this policy was borne out by the high average attendance. Membership remains at a very high level.

Astronomical Section.—President, Mr. R. A. McIntosh; Hon. Secretary, Mr. T. Rounthwaite.

Four meetings were held last year by the Section, whose membership remains at 21. The meetings were addressed by Mr. R. A. McIntosh, Professor H. G. Forder and Mr. T. Rounthwaite. The decrease in number of meetings is due to the difficulty of obtaining lecturers. The most notable event of the year was the discovery by Mr. McIntosh of a bright comet now known as Comet Skjellerup-McIntosh. Mr. McIntosh has also calculated its orbit. The observatory at Symonds Street was visited by many interested members of the public, who found the comet rather disappointing owing to the unfavourable location of the telescope. The comet gave the matter of the observatory much desirable publicity, and it is hoped that a new building and site will become a reality in the near future.

The Committee wish to thank the University College Council and Professor Burbidge for the continued use of the telescope and the physics lecture room.

AIM Ann Report

1940 to 1941

Display.—The year has seen steady progress in improved display. In the anthropology hall new arrangements have been made of the Australian exhibits, of Malayan silver, and of selected material from Tibet, Burma, Turkestan, India and China, as well as of the main types of native culture in Africa. This work has been in part supported by a Carnegie Corporation grant. By moving forward the large habitat groups in the Bird Hall, accommodation has been provided for the herbarium and at the same time case-space has become available for small habitat groups. Wall-case exhibits of ducks and herons, parrots and parrakeets, and sub-antarctic birds have been completed. The Museum's Carnegie exchange display case this year was on pollen analysis of peat swamps.

Exhibitions and Educational.—In addition to the Cheeseman Memorial Flower Show, which is described in Miss Cranwell's and Mr. Scobie's reports, we were able to exhibit a commendably large entry of children's flower drawings for the prizes generously given by members of the Council and of the Botanical Society. We are again indebted to the Society for the successful organisation of a flower show marked by attractive arrangement and much botanical interest. We also have to thank Mr. Anthony Alexander for exhibiting his collection of miniature cacti.

The sketch club instituted by Miss Joan Edwards and Miss Cranwell is an important step towards making the Museum a centre for children's activity as well as for guided study of the displays.

The President has drawn attention to the gratifying outcome of the Education Officer's enthusiastic service. Before Mr. Scobie leaves, as he soon will on active service, the members of the staff will wish to thank him not only for his fine work as a museum colleague, but also for his keen participation in Institute activities, particularly in the Anthropology Section and the Botanical Society. He has also been President this year of the Auckland Visual Education Association.

Additions to the Collections.—His Excellency Viscount Galway, before leaving New Zealand, kindly presented a richly coloured 18th century Limoges enamel to the art section of the Museum, and Mr. J. R. le B. Tomlin has sent from England a further gift of books and rare scientific journals from his valuable library. A single article of considerable interest is an old whale boat, complete with oars, harpoons and spears, presented by the McIntosh family, of Houhora; another unusual item is a set of palisades, some simply carved, from an old Maori pa near Taupo,

presented by Mr. W. Burgess. Sir Albert and Lady Ellis and Mrs. H. Aris have given South Sea native and applied art specimens; and Mrs. J. P. Campbell is the donor of English and Dresden china, while mention should also be made of old glasses given by Mrs. A. Hammond, a gold mounted pipe (gift to the Earl of Sligo by the Prince of Wales, later George IV.) from Messrs. R. T. and J. C. Sawyer, and a Maori *tiki* and gold and silver watches presented by Mr. J. Hester. Altogether 180 accessions have been received during the year.

The preservation of our large and valuable collections is an important task and much of this routine work has been carried out in all departments: in the herbarium, among the birds, in the shell collection and in the several sections of ethnology and art. Members of the scientific staff do not forget that in all this work, as well as in preparation for display, we profit by the advice and the high technical skill of Mr. Dover, Mr. Quayle and Mr. Leece.

Requests for information have been as numerous as ever: to the customary seasonal enquiries about the puriri moth, the monarch butterfly and the gordian worm, there have been added several economic enquiries on plant products, timber borers and fruit and vegetable pests.

Publications.—The Council decided to issue occasional Bulletins, for larger papers than can conveniently be included in the "Records," and the first, on the Moa, has just appeared. In the "Records" this year an important item is a list of the natural history type specimens in the Museum. The following scientific papers by members of the staff have appeared:—

Miss L. M. Cranwell—

"Pollen Grains of the N.Z. Conifers."

"Food Lakes and Fodder for Grey Duck."

Mr. A. W. B. Powell—

"The Marine Mollusca of the Aupourian Province, New Zealand."

"Biological Primary Types in the Auckland Museum."

"Seven New Species of New Zealand Land Mollusca."

Mr. E. G. Turbott—

"A Bird Census on Taranga (The Hen)."

"Food of the Grey Duck: Progress Report on Stomach Analysis."

Mr. G. Archey—

"The Moa—a Study of the Dinornithiformes."

GILBERT ARCHEY.

AIM Ann Report 1940 to 1941

Assistant Director.

Administrative work has been undertaken as delegated from time to time by the Director, general supervision of the printing of Museum publications and the departmental work hereunder reported on.

The year has been one of consolidation, much indexing and co-ordinate arranging of material having been found necessary to make fully available for reference the several large collections acquired during recent years. To the molluscan systematic card index alone, over 12,000 entries have been added. As a war emergency precaution, the 1,132 molluscan type specimens have been segregated and packed in sealed tins ready for removal should the necessity arise. This work prompted the preparation of a complete list of the biological types in the Museum, covering 1,218 species, which is published in Vol. 2, No. 5, of the "Records of the Auckland Museum."

A large number of small lots of specimens have been added to the Molluscan collections, mostly by exchange, and include material from South and Western Australia, Hawaiian Islands and deep-water off Japan. The latter were received from a visiting American conchologist, Mr. E. Dranga, who has also generously donated to the Museum subscription to the American conchological journal, "The Nautilus."

Additions to the Gallery include a cast of the large blackfish which came ashore at Point Chevalier in December, 1939, and the historic whaleboat "Tainui," received from the Navy Department. These two exhibits form the nucleus of a whaling exhibit which will later form a frieze above the molluscan exhibits.

A third lot of rare books and pamphlets on mollusca has been donated by Mr. J. R. le B. Tomlin, of Sussex.

Six lectures were given during the year and three papers have been published in Transactions of the Royal Society and the Museum Records. An extensive monograph on the Molluscan Family Turridae in New Zealand has been almost completed during the year. It covers descriptions of 100 new species, mostly fossils from the Finlay Collection.

The Museum Conchology Club completed its 11th year with a season of 10 meetings, and has inaugurated a printed publication, Bulletin No. 1, which appeared on November 1st, 1940, the printing expenses being covered by members' special donations and sales. Already the Club's library has been augmented by exchanges

received for this bulletin. The evening meetings of the Club continue to be fully attended in spite of "blackout" inconveniences.

Enquiries have been about 900, which is slightly below the average for previous years.

A. W. B. POWELL.

Education Officer.

The year's work has been characterised by a steady extension of the facilities offered by the Museum rather than by further developments. In this respect, the response has begun to assume a natural flow in contrast to the early period of the scheme, when the response from the schools was rather erratic. This indicates an increasing familiarity with the services and a willingness on the part of the schools to use them as integral part of the education system. An increasing number of schools makes regular visits, and several outlying schools are endeavouring to come at least once a term. More visits of this type should be possible to schools near a railway line with convenient services, as the Railway Department has made liberal concessions to parties visiting the Museum for educational purposes. Nevertheless, travelling remains the greatest problem of the schools, and the petrol restrictions have accentuated it. Another difficulty has been that of staffing, particularly in secondary schools, where men are involved in military duties. It is natural then that primary school attendances should show the largest absolute as well as relative increase; but considerable numbers have come from private and secondary schools also. Special provision was made for the blind children. The total attendances were 14,838 in school classes and 3,472 for the film session.

Museum cases have been distributed over a wide area. The city schools benefitted most, some 42 schools receiving them, involving 564 moves. On the other hand, cases have been sent to 33 country schools, distributing centres being at Whakatane, Hamilton, Waihi, Te Aroha, Te Awamutu and Kimihia. This satisfies but a fraction of the demand and is an activity that needs further development. Since all expenses are borne by country schools, members will appreciate how keen their desire is for the cases. Six new cases provided by the Museum helped to relieve the most pressing needs. Schools also availed themselves of loan material, but scarcely to the extent that is possible.

Growing familiarity with the Museum probably contributed to the interest and high standard of work produced in the Spring Flower Show and in the Cheeseman Memorial Prize Competition.

AIM Ann Report

1940 to 1941

The latter was for a form of a Spring-time Diary, and many entries were received from Dargaville to Paeroa. This year the Native Flower Show was designed even more directly than before in the interests of the schools, with excellent results.

Children attended the third Spring Film Session from a wide area, and their interest was manifest. The way in which they now search the Museum before a session and make enquiries from the department to which the film is related show that their visits are purposeful. Club work has been continued—a botany section for secondary school girls and a Maori club for boys—while a senior research group operated during the winter months. Unfortunately, war work has curtailed Museum activities among Girl Guides and Boy Scouts. A new development is the formation of the Museum Sketch Club, under the guidance of Miss Joan Edwards; this might well be the germ of future art and handicraft activities in the Museum.

Help from Training College students has continued. Forty-two men and women have received training and an opportunity to practise with visual and tactile aids. The work done by the cultural group on Friday afternoons was outstanding, several projects being up to research standard. The attachment of a third year student gave an impetus to botanical interests. Lectures were also given to Training College students.

The Museum continued to lend its films to the Visual Education Association, while the Education Officer enjoyed the privilege of being its chairman. Six wireless talks for the Educational Broadcast were given from 1YA.

In March, prior to the Education Department taking over the school service, the Council for Educational Research called a Conference of Museum Directors, Department representatives, Council members and Education Officers to review the situation and to formulate future policy. This proved most fruitful.

R. A. SCOBIE.

Botanist.

A crowded year was eased greatly through assistance given by many friends either in connection with the Native Flower Show (86 helpers), or with the maintenance of the Native Plant Tables (Messrs. A. M. Butterworth, J. E. Attwood and Ross Tilly), or in the herbarium (Tony Alexander); and welcome space was gained through the fitting up of a room which now houses all the cryptogams, native dicotyledons and the Polynesian collections.

By arrangement with the Plant Research Bureau, Miss B. Molesworth acted as part-time assistant until November, and her handling of material and enquiries freed the botanist for research work for the Bureau, whereby a paper entitled "Pollen Grains of the N.Z. Conifers" was published in the N.Z. Journal of Science and Technology, Vol. 22, No. 1B, and the description of pollen grains of the dicotyledons was almost completed.

Sets of ferns from Dr. E. B. Copeland (California), of slides of pollen grains from Dr. R. P. Wodehouse (Arlington, U.S.A.), and of N. Auckland seaweeds from Mr. V. Lindauer (Kerikeri) have been the most important accessions during the year. At Professor Yuncker's request, the Niue collection made by S. Percy Smith was forwarded for examination. Little was added through collection, as field trips were limited to areas suitable for completing the film record of the Kauri Industry begun with Mr. Scobie's assistance. Three brief visits were paid to Whangaruru, by courtesy of the Kauri Timber Co. and Captain Anderson of the paddle boat "Lyttelton," and Katikati forest was again visited. Owing to the persistently unfavourable lighting, it was not possible to complete the film before the new session.

Attention of the Scenery Preservation Committee was drawn in November to the imminent milling of Walker's Bush, near Henderson, an area of 52 acres of mixed nature with three very large Kauri, and through co-operation with the Auckland Botanical Society an appeal for subscriptions to members resulted in over £300 being promised. The City Council then promised to complete the purchase for the Centennial Park. The value and great beauty of the piece must be emphasized: it would be a splendid location for a small trailside museum of the type seen in American National Parks.

Educational work embraced the preparation of a Carnegie Travelling Case, showing in a popular way how the study of pollen grains from peat bogs can be utilized to reveal the secrets of past climates and human cultures. Another aspect was identification work for the Auckland Acclimatisation Society and a note on "Food Lakes and Fodder for Grey Duck," written for their Annual Report.

Part was taken in the formation of a Museum Sketch Club for children whose work has shown promise in previous shows and diary competitions. A large number of children are being handled in a short experimental series in which we have been fortunate to secure the supervision of Miss Joan Edwards working in co-operation with Mr. Scobie, Mr. Turbott and other members of the staff.

AIM Ann Report

1940 to 1941

At present the idea is to foster child art, and it is hoped that a purely voluntary attendance at the Museum will lead to greater interest in wild life. Towards the end of the year an arrangement was made with Miss V. Montgomery and Mesdames Craig, Cooper, Page and Aitken to prepare weekly sequences of decorative arrangements as a guide to flower appreciation.

Both innovations arose from interest taken in the 9th Native Flower Show, which attracted 7,834 visits between September 21st and 25th, 1,800 being children under Mr. Scobie's guidance. Apart from preliminary and "washing up" arrangements, the bulk of the work fell on Miss B. Molesworth, organising secretary appointed by the Auckland Botanical Society, and on Mrs. Basil Buddle. Children's entries totalled 286, including 20 major school exhibits, and the beauty of these, and of the general colour scheme devised by Mrs. Buddle, excited much interest. Although this was a spring show, pride of place had to be given to the brilliance of berries—tawapou, puriri, titoki in particular. A Prize Giving was arranged in December.

Few lectures were given, but the organisation of Sunday afternoon lectures and the usual talk on Arbor Day at Otahuhu were not neglected.

LUCY M. CRANWELL.

Ethnologist.

Additions to the collection numbered 612 specimens. Of these the following are of particular interest:—Shell adze, shark tooth knife and neck ornament of human hair from Ocean Island, presented by Sir Albert Ellis; a dancing mask from New Britain, presented by Mr. P. B. Armitage; *ko* or digging implement from Mr. J. Emtage; a small wooden bowl and a bone *poria* from Miss Gwen Hills.

The classification and care of the collections occupied an increasing amount of time. Much time was devoted to the registration of a large collection of stone adzes from the Solomon Islands and New Guinea. Treatment of large numbers of specimens against infection by borer, mildew, moth, etc., was carried out at regular intervals.

Three lectures were delivered. A research group, the outgrowth of the Boys' Ethnology Club, continued to function and held meetings at the Museum during the winter. Members concentrated on a study of Maori carving, and one member, Mr. R. M. Cassie, delivered a lecture to the Anthropology Section of the Institute.

Numerous demands were made on the department for the loan of material to illustrate talks and lectures. In addition to further loans to the Education Officer, specimens were lent to various cultural societies, teachers, students and Boy Scouts.

Several reviews and abstracts were prepared for scientific journals. Exchange material was received from the Buffalo Museum of Science, Buffalo, N.Y., and the Milwaukee Public Museum, Milwaukee, Wisconsin. Plans for further exchanges with American Museums have been postponed until conditions improve.

There was a marked decline in the interviews recorded, due undoubtedly to the war situation. Only 300 interviews took place.

V. F. FISHER.

Assistant Ethnologist.

The year's activities have been centred mainly in the Hall of Foreign Ethnology, where a number of new displays have been prepared. The first of these to be completed was the Australian section, where the wealth of material made possible a scheme for a series of five cases. These were arranged to show different aspects of aboriginal life and are illustrated by several excellent photographs which were generously made available by the Australian National Travel Association.

In the African section the displays have been extended to four cases in order to include an introductory panel on the racial history of the country. The others are devoted to separate culture areas of Africa showing the impact of waves of stronger races advancing southward, and the shifting and adaptation of populations.

This scheme was made more effective by the extent of the Adams Wilkes Collection of Nigerian material which could be drawn on to make the Negro display particularly comprehensive. Although South Africa is not so well represented in the research collections, they yielded sufficient material to illustrate the life of the Bantu tribes, to which case certain specimens will be added if they become available in the future.

In addition to these sections separate cases which have been re-arranged include Malaya, China, India and Central Asia.

Methods of display this year have been to some extent governed by the increasing difficulty of obtaining fabrics, papers and fittings, and in many cases it has been necessary to devise substitutes for the preferred materials which have been available in the past.

AIM Ann Report 1940 to 1941

A report on methods of ethnographical display covering the previous three years' experiments was written for the Carnegie Corporation.

Four lectures were given during the year and several groups of Girl Guides have been examined for their Maori Badges.

OLWYN M. TURBOTT.

Assistant Zoologist.

In the reorganisation of displays in the Hall of New Zealand Bird Life the principle, as before, has been the arrangement of significant specimens and labels on plain coloured backgrounds in case units. With the completion of cases of New Zealand parrots, penguins and kiwis, all the space planned to contain the general displays of species of New Zealand birds has been filled. The only exception is at the end of the Hall, where artificial lighting experiments for habitat displays are being carried out in deeper cases.

In addition, a three dimensional formalized background facing the Hall entrance has been substituted for the painted scene in the Macquarie Island bird display, which had gradually deteriorated. Mr. Dover has replaced the rock-work with plaster casts of rocks, the finding and preparation of which occupied several days in the field. The Antarctic bird display has been altered to conform in colour with the remainder of the Hall, and other alterations have included hanging the painting of the takahe beside the specimens of rails.

Part of the time for display this year has been necessarily devoted to the printing of labels.

A further objective concurrently with display work has been the preparation of reserve display material, special attention having been given to making wet preparations of reptiles and other terrestrial mammals. The demand for mounted and briefly labelled material not represented in the general displays has already increased, especially among specializing Teachers' Training College and secondary school students.

The New Zealand research collection is at present being used in the preparation of papers by five independent research workers. Advances in providing the essentials for research have included the designing of a new cabinet label, an attempt to increase the number of skeletons and the segregation of all types. Two papers have been completed.

Three public lectures have been given. The range of identification has been increased by the acquisition of a small vivarium in which unrecognizable stages of insects hatch out to be identified.

To a great extent the service has also benefitted by the invaluable co-operation of the entomological department of the Mount Albert Plant Diseases Division, Department of Scientific and Industrial Research.

E. G. TURBOTT.

Hon. Entomologist.

Part of the summer was spent in North Auckland studying Coleoptera, but collecting in the other orders as well. Following legislation on termite control field work was carried out to assist the newly appointed City Council inspectors. While we know the three termites that infest houses here, much detailed work remains to be done on their local habits. An address entitled "Glimpses of Insect Life" was given in the Museum Sunday afternoon lecture series. The Museum's Carnegie Exchange display last year depicted the life histories of insects and the classification of insect orders based thereon. Some 1,500 specimens of insects are on display, and these will be replaced by new groupings during the coming year. Many insects have been sent in for identification and have been attended to either by Mr. Turbott or myself; I have made a point of being at the Museum on Saturday afternoons and have been glad to find how keenly several Teachers' Training College students have taken up the study of insect life.

W. H. HEMINGWAY.

Librarian.

Library expenditure £295/6/3 includes: Subscriptions to Periodicals £97/1/10, Purchase of Books £158/5/8, Binding £39/18/9.

Thirty books have been purchased locally, and 83 have been received by gift. The chief gifts for the year are as follows:—Mr. J. R. le B. Tomlin, of St. Leonards-on-Sea, 43 volumes and a number of pamphlets of a natural history and general nature; and Mr. E. Earle Vaile, 21 volumes of Maori literature. These donations, together with those mentioned in another page of this report, are of considerable importance and form a welcome addition to the library.

Owing to war conditions, magazines and exchange publications have not arrived with the same regularity as formerly. Those from Europe, as to be expected, have practically ceased.

The library is increasingly appreciated by members, also students both from the University and the Training College.

MARSHALL C. CLELAND.

Museum Educational Service.

A Twelve-Year Survey.

As soon as the new War Memorial Museum building was opened in November, 1929, a school service was instituted by sending six natural history loan exhibits on circuit and by lending lantern slides and ethnographical specimens. Teachers were invited to the Museum and the Headmasters Association appointed a committee to co-operate with the Museum staff in the undertaking. In the following year the educational work was placed under the care of Mr. R. A. Falla, who carried out these activities in addition to his other Museum duties. The year saw the loan cases increased to seventeen, thirty schools were brought into close touch with the Museum and lectures and demonstrations were instituted for student-teachers from the Training College. By 1933 thirty loan cases were on circuit to 42 city and suburban schools, and specimens were being regularly lent to those in the country; classes had been instituted for children from the Institute for the Blind, and boys' and girls' clubs with a total membership of 60 were holding regular weekly meetings under the guidance of members of the staff. So far it had not been possible to introduce a system of school class visits, though, occasionally, when a country school appeared unexpectedly at the door, something had to be hurriedly arranged. To meet this eventuality and to help town teachers bringing their own classes, the cyclostyle was invoked and sets of questions with case-references to answers, and "hunt-the-answer" games were devised. The cinema, too, was introduced and films made which combined teaching interest and value as ethnographical and natural history records, while the Cheeseman Memorial Essay Competition and children's exhibits in the annual native spring flower show provided scope for the children's active participation in Museum interests.

During the depression years 1933 and 1934, when the Auckland Training College was closed, the services of the lecturer in science, Mr. E. G. Jones, were made available to the Museum for most of each week. Mr. Jones immediately instituted school class visits, which he followed up by personal visits to the schools. The Education Board kindly undertook to exchange the loan cases more frequently, and sets of the cases were sent to groups of country schools which could arrange their own interchanges. Variety was given in this and succeeding years to the Cheeseman Memorial Competition by offering the prizes for natural history drawings and paintings, for verse, for displays and for diaries. In ad-

dition, the members of the staff co-operated with Mr. Jones in educational broadcasts to schools and in the production of a schools' broadcasts booklet, as well as in giving many addresses to teachers and to clubs and societies in town and country. A course of Monday evening public lectures has been part of the Auckland Institute programme for over sixty years, and during the past twelve years Sunday afternoon lectures have been given as a Museum service.

In 1934 Mr. Jones could give us only part of his time; and in the three following years we were without his help. Nevertheless, the school classes were continued by the Museum staff, assisted now by the Training College in another way. The Principal of the College, Mr. D. M. Rae, who had always taken a close interest in our educational work, now sent groups of students to the Museum to combine part of their training with continuance of the Museum school classes under Mr. Falla, himself formerly a lecturer at the Training College, and other members of the staff. This system continues and has been of much mutual benefit to the two institutions. All the other educational activities were continued and extended during this period.

In 1938 a generous Carnegie Corporation grant to New Zealand museums, supplemented by the Education Department, provided means for a much extended service. For the first time, full-time Education Officers, experienced teachers, were seconded from the Department to the Museums. They were appointed for three years, the period covered by the grant, and the success of their endeavours will appear in the sequel.

Mr. R. A. Scobie, who came to this Museum, established close relations with headmasters and staff teachers, and was soon able to offer a wide variety of lessons or guide-talks on natural history, ethnology, geography and local history. In the first year classes came for single visits, now they may come for short groups of talks; the Museum visits are linked with school lessons and, as far as possible, with the loan exhibits that are on hand. Lantern-slides, cinema films and, lately, film strips, have been increasingly used, and here co-operation with the Visual Education Association, which recently elected Mr. Scobie to be President, has been most beneficial. A short spring programme of Saturday morning film screenings had such literally overwhelming success that notwithstanding the showing of the pictures for three sessions each morning, the schools had finally to be given a quota of tickets. In addition to the boys' and girls' clubs conducted by the staff, Mr. Scobie has invited visiting study groups from several schools, and particular attention has been paid to special children's competitions

AIM Ann Report 1940 to 1941

and to those associated with the Flower Show and other exhibitions.

The past three years have seen an extension in all the well-established sections of the school service, in the increased attendance of children in classes, with clubs and for competitions, in the number of loan exhibits and sets of specimens, and in the number of country schools for which some measure of assistance has been contrived. The success of this twelve year effort and especially the notable achievements of the past three years, have been attested, on the part of the teachers by constantly increasing participations in the educational activities, and on the part of the Education Department by its decision to continue the service as part of the national education system. This renewed opportunity is also a responsibility, and we must strive, not merely to maintain the activities already in hand, but to extend them, first in the country districts, and second within the Museum by providing, or having provided for us, the accommodation and facilities for large numbers of children to come to the Museum to draw, to paint, to study, to read and to practise actively all those enterprises and hobbies that are now recognized as being a vital part of child education.

We have had much help and encouragement in this work, and we welcome this opportunity of acknowledging our indebtedness to two successive Ministers and Directors of Education; to the Carnegie Corporation, its President Dr. Keppel, its Museums Association representatives, Mr. Markham and Professor Richards, and its local executive, the New Zealand Council for Educational Research; to the Auckland Education Board; to Mr. Rae, Principal of the Teachers' Training College; and, we may add, to the many keen young students whom he has sent to help us. And, finally, in writing the names of the three Education Officers, Dr. Falla, who laid the foundations, Mr. Jones, who raised the superstructure, and Mr. Scobie, who extended and adorned it, we thank them not only for the Museum, but also on behalf of the many teachers and the thousands of children who have by their efforts found interest and happiness within our walls.

GILBERT ARCHY,
Director.

AUCKLAND INSTITUTE AND MUSEUM.

RECEIPTS AND PAYMENTS ACCOUNT

For the Year Ended 31st March, 1941.

	£	s.	d.		£	s.	d.
To Balance, 1st April, 1941	1,124	10	5	By Salaries and Wages	5,610	13	6
" Subscriptions	404	5	0	" Insurance	38	6	9
" Subscriptions in Advance	6	16	6	" Library Expenses	302	15	11
" Life Members	10	10	0	" Institute Expenses	135	11	8
" Interest—				" Specimens—			
Mortgage	653	16	9	Purchase	193	7	3
Debenture	246	17	4	Collecting and Travelling	40	1	7
Stock	461	12	6	" Preserving and Display	109	18	9
" Local Body Contributions	5,700	0	0	" School Services, Publications, Prizes	172	16	10
" Sundry Receipts	55	12	11	" General Maintenance	495	5	8
" Special Donations	169	19	7	" Buildings—			
" Receiver Land Revenue—				Maintenance	207	15	5
Rent	21	6	3	" Show Cases and Furniture	169	1	7
Sales	1	15	1	" Auckland Museum Maintenance Amendment Act, 1931 (Sec. 37)—			
" Grants on Wages and Salaries	60	0	0	Wreaths	5	5	0
" Mortgage—Reduction of Principal	2,948	19	0	Entertainment	1	17	7
" Goldie Bequest	1,000	0	0	" Transfers—			
" Debentures Repaid	500	0	0	Investment Account	4,448	19	0
" Contributions Specimens Purchase	43	1	4	Life Subscription Account	10	10	0
" Contributions Shrine Account	18	9	3	Specimen Purchase Account	96	17	10
" Transfers—				Museum Endowment Account	1	15	1
Specimen Purchase Fund	53	16	6	Shrine Account	18	9	3
				Buildings Reserve	200	0	0
				By Balance 31st March, 1941	1,221	19	9
	£13,481	8	5		£13,481	8	5

AIM Ann Report
1940 to 1941

INCOME AND EXPENDITURE ACCOUNT.

For the Year Ended 31st March, 1941.

EXPENDITURE.			INCOME.		
	£	s. d.		£	s. d.
To Salaries	5,550	13 6	By Subscriptions	463	1 0
" Insurance	38	6 9	" Life Members	10	10 0
" General Maintenance	464	8 0	" Interest Mortgage and Debenture	1,369	7 2
" School Services, Publications, Prizes	173	9 11	" Contributions from Local Bodies	5,700	0 0
" Institute Expenses	135	11 8	" Sundry Receipts	39	0 6
" Unauthorised Expenditure—			" Auckland Savings Bank	3	0 1
Wreaths	4	4 0	" Post Office Savings Bank	13	12 4
Entertainment	1	17 7	" Rent R.L.R.	21	6 3
" Sundries	39	6 5	" Sales R.L.R.	1	15 1
" Building Maintenance	208	7 1	" Memorial Hall and Specimen Purchase	115	7 1
" Subscriptions Written Off	51	9 0	" Carnegie Grant	169	19 7
" Transfers—			" Balance	792	0 6
Life Subscription Capital Account	10	10 0			
Memorial Hall Trust Fund	18	9 3			
Specimen Purchase	96	17 10			
Museum Endowment Account	1	15 1			
Building Reserve	200	0 0			
" Depreciation, Building	1,063	6 6			
" Depreciation, Furniture	640	7 0			
	£8,698	19 7		£8,698	19 7

MUSEUM ENDOWMENT ACCOUNT.

£	s. d.	£	s. d.	£	s. d.	£	s. d.
To Balance 31/3/41—				By Balance 1/4/1940—			
Investments	14,091	12 9		Investments	13,778	32 3	
Cash at Bank	32	11 9		Cash at Bank	344	7 2	
	14,124	4 6			14,122	9 5	
Less Reserve for Depreciation	271	5 5		Add R.L.R. Sales	1	15 1	
		13,852	19 1		14,124	4 6	
				Less Reserve for Depreciation	271	5 5	
					13,852	19 1	
		£13,852	19 1			£13,852	19 1

LIFE MEMBERS' SUBSCRIPTION ACCOUNT.

	£	s.	d.		£	s.	d.	£	s.	d.
To Balance 31/3/41—				By Balance 1/4/1940—						
Investments	2,560	11	5	Investments	2,439	0	0			
				Cash at Bank	111	1	5			
					2,550	1	5			
				.. Transfer from Income and Expendi- ture Account	10	10	0	2,560	11	5
								£2,560	11	5
	£2,560	11	5							

ACCUMULATING ENDOWMENT ACCOUNT.

	£	s.	d.		£	s.	d.
March 31st, 1941—				April 1st, 1940—			
To Investments	346	19	11	By Balance	337	3	11
				March 31st, 1941—			
				By Interest	9	16	0
	£346	19	11		£346	19	11

MACKECHNIE BEQUEST ACCOUNT.

	£	s.	d.		£	s.	d.
March 31st, 1941—				April 1st, 1940—			
To Balance—Cash in Bank	14	18	7	By Balance	14	10	2
				March 31st, 1941—			
				By Interest	8	5	
	£14	18	7		£14	18	7

SIR JAMES GUNSON TRUST ACCOUNT.

	£	s.	d.		£	s.	d.
March 31st, 1941—				April 1st, 1940—			
To Balance—Cash in Bank	204	15	1	By Balance	198	16	3
				March 31st, 1941—			
				By Interest	5	18	10
	£204	15	1		£204	15	1

MEMORIAL HALL TRUST FUND.

	£	s.	d.		£	s.	d.
March 31st, 1941—				April 1st, 1940—			
To Balance—Cash in Bank	380	9	6	By Balance	352	10	3
				March 31st, 1941—			
				By Interest	9	10	0
				„ Transfer	18	9	3
	£380	9	6		£380	9	6

SPECIMEN PURCHASE FUND.

	£	s.	d.		£	s.	d.
March 31st, 1941—				April 1st, 1940—			
To Balance—Cash in Bank	431	13	6	By Balance	321	18	2
				March 31st, 1941—			
				By Interest	12	17	6
				„ Transfer	96	17	10
	£431	13	6		£431	13	6

AUCKLAND INSTITUTE AND MUSEUM.

BALANCE SHEET as at 31st March, 1941.

LIABILITIES.				ASSETS.			
	£	s.	d.		£	s.	d.
Capital Account—							
Property as at 31/3/1941—				Buildings—			
Buildings	221,588	0	3	1st April, 1940..	212,665	6	9
Library	5,000	0	0	Less Depreciation ..	1,063	6	6
Furniture	22,384	2	0				211,602 0 3
Specimens	150,136	12	11	Furniture and Fittings—			
			399,108 15 2	1st April, 1940 ..	25,444	17	3
Endowments—				Additions	169	1	7
Costley Bequest	7,700	0	0				25,613 18 10
Mackechnie Bequest	2,000	0	0	Less Depreciation ..	640	7	0
Campbell Bequest	1,000	0	0				24,973 11 10
Herries Bequest	1,000	0	0	Collections—			
Shaw Bequest	1,000	0	0	1st April, 1940 ..	158,104	3	8
Nathan Bequest	100	0	0	Additions	352	4	7
Marshall Bequest	550	0	0				158,456 8 3
Goldie Bequest	1,000	0	0	Library Books—			
Museum Endowment	13,852	19	1	1st April, 1940 ..	8,652	11	4
Life Members' Subscriptions ..	2,560	11	5	Additions	305	7	4
			30,763 10 6				8,957 18 8
General Account			10,319 10 5	Investments—			
Reserves—				Mortgages	13,055	1	3
Mackechnie Library Fund	14	18	7	Debentures	11,260	1	1
Accumulating Endowment Reserve ..	346	19	11	N.Z. Inscribed Stock ..	6,150	2	0
Gunson Specimen Reserve Fund ..	204	15	1	Australian Commonwealth Stock..	1,982	10	0
Mitchelson Prize Fund	50	0	0				32,447 14 4
Memorial Hall Trust Fund	380	9	6	Sundry Debtors—			
Specimen Purchase Reserve Fund..	431	13	6	Interest	39	12	8
Building Maintenance Reserve ..	1,507	17	9	Subscriptions	153	6	0
			2,936 14 4				192 18 8
Reserve for Depreciation of Investments			271 5 5	Cash—			
Sundry Creditors—				Bank of New Zealand	189	18	8
On Open Account	43	14	6	Post Office Savings Bank ..	1,592	15	10
Subscriptions in Advance	6	16	6	Auckland Savings Bank Accounts	960	1	5
			50 13 0	Cash in Hand	1	10	0
							2,744 5 11
				Income and Expenditure Account—			
				Balance 31/3/41	792	0	6
				Plus Balance 1/4/40	3,283	10	5
							4,075 10 11
							£443,450 8 10
			£443,450 8 10				

GILBERT ARCHIEY, Treasurer.

AIM Ann Report
1940 to 1941

The following

Periodicals and Publications of Societies

are subscribed to by the Institute:

NATURE.
DISCOVERY.
SCIENCE PROGRESS.
TRANSACTIONS AND PROCEEDINGS OF THE ROYAL
SOCIETY.
COMPTES RENDUS DES SEANCES DE L'ACADEMIE DES
SCIENCES.
NEW ZEALAND JOURNAL OF SCIENCE AND TECHNOLOGY.
THE MUSEUMS JOURNAL.
THE PHILOSOPHICAL MAGAZINE.
THE AMERICAN JOURNAL OF SCIENCE.
THE PHYSICAL REVIEW.
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL
SOCIETY.
JOURNAL OF THE CHEMICAL SOCIETY.
ARCHIV DER PHARMAZIE.
CHEMICAL REVIEWS.
MONATSHEFTE FUR CHEMIE.
THE INDUSTRIAL CHEMIST.
THE GEOLOGICAL MAGAZINE.
QUARTERLY JOURNAL OF THE GEOLOGICAL SOCIETY.
THE GEOGRAPHICAL JOURNAL.
ANNALS AND MAGAZINE OF NATURAL HISTORY.
ANNALS OF BOTANY.
JOURNAL OF BOTANY.
DAS PFLANZENREICH.
TRANSACTIONS AND PROCEEDINGS OF THE ZOOLOGICAL
SOCIETY.
THE ZOOLOGICAL RECORD.
PUBLICATIONS OF THE RAY SOCIETY.
THE IBIS.
MAN.
JOURNAL OF THE ROYAL ANTHROPOLOGICAL INSTITUTE.
ANTIQUITY.
JOURNAL OF EGYPTIAN ARCHAEOLOGY.
OCEANIA.
JOURNAL OF THE POLYNESIAN SOCIETY.
ART IN NEW ZEALAND.
MIND.
THE ECONOMIC JOURNAL.
THE ECONOMIC RECORD.
JOURNAL OF THE STATISTICAL SOCIETY.
QUARTERLY JOURNAL OF THE ROYAL METEOROLOGICAL
SOCIETY.
THE JOURNAL OF ECOLOGY.
MANKIND.
COUNTRY SIDE.
THE GEOGRAPHICAL MAGAZINE.

List of Benefactions
made to the
Auckland Institute and Museum
of an amount (or value) exceeding £50.

MONETARY GIFTS.

- 1876 Auckland Citizens: £2,026 subscribed towards first building.
1878 Mr. J. C. Firth donated £106 for show cases.
1884 Mr. Edw. Costley bequeathed £12,150.
1887 Mr. David Nathan bequeathed £100.
1897 Mr. T. Russell donated £100 for geological specimens.
1901 Auckland Citizens subscribed £1,000 for Mair Collection.
1902 Mr. E. A. Mackechnie bequeathed £2,500.
1906 Auckland Citizens subscribed £662 for carved houses.
1911 Auckland Citizens subscribed £684 for ancient carvings.
1913 Sir John Logan Campbell bequeathed £1,000.
1921 Institute Members subscribed £115 for Temple Bronzes.
1923 Sir Wm. H. Herries bequeathed £1,000.
1924 Citizens subscribed £698 for Maori collections.
1925 Institute Members subscribed £100 for Maori collection.
1926 Sir James Gunson Presentation Committee presented £118 for Maori collection. Mr. David Goldie bequeathed £1,000.
1927 Mr. F. Shaw bequeathed £1,000.
1929 Mr. S. J. Ambury bequeathed £250.
1934 Mrs. R. M. Wilson: £50/10/-, given to establish the Sir Edwin Mitchelson Prize Fund.

SPECIMENS AND BOOKS.

- 1876 Mr. R. C. Barstow: Large collection of Maori articles.
1877 Mr. G. F. Edmonston: 564 volumes of scientific works.
1878 Mr. T. Russell, C.M.G.: 34 casts from the antique.
1878-83 Mr. J. T. MacKelvie: 390 books and ethnology collection.
1887 Mr. C. O. Davis: Valuable Maori collection.
1901 Mr. L. D. Nathan: Japanese Shinto Shrine.
1913 Mr. Henry Shaw and Mr. F. Shaw: 172 scientific books. Hon. Sir Edwin Mitchelson: Valuable Kauri Gum collection.

AIM Ann Report 1940 to 1941

- 1915 Dr. C. E. R. Bucknill: Collection of Old English Glass.
- 1916 Mr. Henry Shaw: Collection of Japanese art.
- 1917 Miss Ruth Northcroft: Large Maori and Polynesian Collection
- 1919 The Misses Yates: Collection of Indian weapons.
- 1920 Mr. James Dunning: Collection of North American Mammals.
- 1921 Mr. W. A. Aldred: Valuable collection of Maori specimens.
Hon. J. B. Turner: Important Fijian ethnographical collection.
- 1923 Mr. T. F. Cheeseman, F.L.S., F.N.Z.Inst.: The Cheeseman Herbarium of native and foreign plants.
- 1924 Mr. Wm. Sutherland: Melanesian ethnographical collection.
Mr. A. C. Caughey: Fijian and New Hebridean ethnographical collection.
Mr. R. A. Meek: Ethnographical specimens from Bismarek Group. Messrs. Samuel Vaile & Sons: Large collection of Maori greenstone articles. Sir Cecil Leys and Mrs. Selwyn Upton: The Edge-Partington ethnographical collection of over 2,000 specimens, given in memory of their father, Dr. T. W. Leys.
- 1925 Mr. F. Crossley Mappin: Valuable Maori and South Pacific exhibits.
- 1926 Mr. Geo. F. Webster: Valuable Maori antiquities.
Mr. H. R. Butcher: Collection of British coins.
Mrs. E. M. Ball: The Thos. Ball Zoological collection.
Mr. F. Crossley Mappin: Ancient Chinese ceramic specimens.
Mr. Hallyburton Johnstone: Silver cup presented by Queen Victoria in 1878 to the Royal George Yacht Club.
- 1927 Mr. F. Crossley Mappin: Valuable Maori carvings.
Mr. Moss Davis: Valuable ethnographical specimens.
- 1928 Sir Cecil Leys and Mrs. Selwyn Upton: Unique and richly carved feather box.
Mr. J. R. Adams Wilkes: Ethnographical collections from Nigeria and New Guinea.
Mr. Harry Kinder: The Dr. Kinder Collection—Maori and Melanesian.
Mr. E. Earle Vaile: Important collection of Maori stone carvings and collection of Eastern ethnographical specimens.
Mrs. S. J. Lushington: Large collection of mollusca.
- 1929 Mr. T. H. Barstow: Maori canoe prows and stern posts.
Mr. W. R. McGregor: New Ireland carved memorial figures.
Mrs., Miss and Mr. A. N. Cooper: The Charles Cooper collection of mollusca.
Rev. W. H. Webster: Large collection of mollusca.
Mr. C. E. Clarke: Large collection of N.Z. Insects.
Executors Mr. W. M. Cole: Stone and Bronze Age Artifacts.

- Miss Webster and Mr. G. F. Webster: Water-colour drawings of the Solomon Islands.
- 1930 Mr. John Kenderdine: Large collection of books and pamphlets, including rare early New Zealand works. Mr. H. E. Vaile: A large collection of Maori implements and greenstone ornaments. Mr. Moss Davis: Selected Maori exhibits; also porcelain and ivory. Mr. L. J. Matthews: Two specimens of Moa eggs. Dr. L. Cockayne: Large collection of N.Z. plants.
- 1931 Sir Cecil Leys and Mrs. Selwyn Upton: Valuable Maori antiquities: additions to the Dr. T. W. Leys collection. Mrs. S. J. Lushington: Collection of Silver and Sheffield Plate. Mrs. A. C. Lennard: Collection of English porcelain.
- 1932 Mr. H. S. Dudley: Large and valuable collection of Oriental Arts. Mr. Moss Davis: British Gold and Silver Coins and European Ivories and Bronzes. Hon. Sir James Parr: Gold and Silver Mementoes of public events in New Zealand, and case for their display.
- 1933 Vaile Collection: Additional gift of many valuable Maori antiquities. Mr. W. Goodfellow: Extensive ethnographical collection from Northern Melanesia.
- 1934 Miss Eleanor Brown and Mrs. Geo. Brownlee: Collection of heirlooms of the Ngati-toa and Ngati-awa Tribes. Messrs. R. B. & G. Matthews: The H.B. Matthews Herbarium.
- 1935 Mr. F. Crossley Mappin: Maori Specimens, including hand-somely carved sternpost. The Admiralty: Model of H.M.S. New Zealand.
- 1936 Captain G. Humphreys-Davies: Large and valuable collection of Chinese pottery figures. Mrs. T. G. Russell: 235 volumes of chemical and physical works from the library of her father, the late Professor Brown. Mr. E. Earle Vaile: Valuable Maori hei-tiki and Rapa Island stone artifacts. The Estate of the late H. E. Vaile: Maori and Polynesian ethnographical collection; carvings and ornaments.
- 1937 Mr. E. Earle Vaile: Collection of ethnographical specimens and six Italian bronzes. Sir Algernon Thomas: Library of scientific books and papers.
- 1938 Mr. E. Earle Vaile: Gift of many early New Zealand books and journals. Mr. J. R. le B. Tomlin: Gift of valuable early editions of natural history works. Mr. F. Crossley Mappin: Early Chinese Pottery and Bronzes.
- 1939 Mr. E. Earle Vaile: Maori carvings, large Melanesian collection and gifts to the Library. Mr. J. R. le B. Tomlin: Gift of early Worcester china and early works on natural history. Mr. W. Goodfellow: Large Melanesian collection.

GIFTS TO THE Library and Museum.

LIBRARY.

PERIODICALS.

New Zealand Parliamentary Reports: Hansard, 1940; Monthly Abstract of Statistics, 1940; New Zealand Journal of Agriculture, 1940; Year Book, 1940.
Publications of the Auckland University College.
Journal of the Alpine Sports Club, Auckland.
Bulletins of the New Zealand Geological Survey.
Bulletins of the Dairy Research Institute, New Zealand.
Fisheries Bulletins, the Marine Department, New Zealand.
Publications of the Cawthron Institute, Nelson.
Records of the Canterbury Museum, New Zealand.
Bulletins of the New Zealand Libraries Association, Christchurch.
Publications of the Council of Scientific and Industrial Research, Wellington.
Bulletins of the Town Planning Institute of New Zealand.
New Zealand Centennial News.
Publications New Zealand Institute of International Affairs.
The Australian Zoologist.
Proceedings of the Zoological Society of New South Wales.
Report of the Fisheries of New South Wales.
The Australian Naturalist, Sydney.
Records and Memoirs of the Australian Museum.
Journal of the Royal Society of New South Wales.
Bulletins and Reports of the Technological Museum, Sydney.
Proceedings of the Royal Society of Victoria.
Memoirs of the National Museum, Melbourne.
The Victorian Naturalist, The Field Naturalist Club of Victoria.
Publications of the Council of Scientific and Industrial Research, Melbourne.
Proceedings of the Royal Society of Queensland.
Queensland Government Mining Journal.
Publications of the University of Queensland.
Records of the South Australian Museum.
Transactions and Proceedings of the Royal Society of South Australia.
Memoirs of the Kyancutta Museum, South Australia.
Report of the Art Galleries and Museum Association.
Journal of the Royal Society of Western Australia.
Proceedings of the Royal Society of Tasmania.
Transactions of the Fijian Society, Suva, Fiji.
Kew Bulletin.
Proceedings of the Linnean Society of London.
Bulletins of the Imperial Institute, London.
Publications of the Manchester Museum.
Proceedings and Reports of the Manchester Literary and Philosophical Society.

Publications of the University of Liverpool.
Publications of the Natural Museum of Wales.
Publications of the Conchological Society of Great Britain and Ireland.
Journal of the Marine Biological Association, Plymouth.
Quarterly Bulletins and Reports of the Leicester Museum and Art Gallery.
Proceedings of the Royal Society of Edinburgh.
Proceedings and Reports of the Belfast Natural History and Philosophical Society.
Bulletins of the Division of Plant Industry, Pretoria.
Publications of the Department of Agriculture, Pretoria.
Annals of the Transvaal Museum.
Annals of the South African Museum.
Annals of the Durban Museum.
Annals of the Natal Museum.
Publications Fisheries Survey, Cape Town.
Memoirs Geological Survey, Pretoria.
Records of the Indian Museum, Calcutta.
Publications of the Colombo Museum, Ceylon.
Bulletins of the Raffles Museum, Singapore.
Bulletins of the Botanic Gardens, Singapore.
Bulletins and Reports of the Valetta Museum, Malta.
Pacific Affairs: Mr. Archey.
Transactions of the Royal Society of Canada.
Bulletins and Reports, Department of Mines, Canada.
Museum Art Notes, Vancouver Scientific Association.
Quarterly Reports of the Vancouver City Museum.
Proceedings and Transactions of the Nova Scotia Institute of Science.
Publications of the Carnegie Institute of Washington.
Publications of the Carnegie Corporation of New York.
Publications of the State College of Washington.
Publications in Oceanography: The University of Washington.
Publications of the New York Museum of Science and Industry.
Publications of the New York Zoological Park.
Publications of the Peabody Museum, Harvard.
Bulletins and Circulars, United States Department of Agriculture.
Annual Report and Bulletins of the U.S. Bureau of Ethnology.
Natural History and Reports, American Museum of Natural History.
Proceedings and Bulletins of the United States National Museum.
Memoirs, Bulletins and Occasional Papers of the Bishop Museum, Honolulu.
Studies in Natural History, The University of Iowa.
Botanical Papers: New York Botanical Garden.
Publications of the American Midland Naturalist, Indiana.
Zoological, Geological, Anthropological and Botanical Series: Field Museum of Natural History.
Publications of the South-west Museum, Los Angeles.
Publications of the Charleston Museum, South-Carolina.
Publications of the San Diego Society of Natural History.
Publications of the University of California.
Proceedings of the California Academy of Science.
Marine Biology: Stanford University of California.
Bulletins of the California State Fisheries.
Bulletins of the Wagner Free Institute of Science, Philadelphia.
Publications of the University of Pennsylvania, Philadelphia.
Proceedings of the Academy of Sciences, Philadelphia.
Publications of the Morris Arboretum, Pennsylvania.
Publications of the Buffalo Society of Natural Sciences.

AIM Ann Report 1940 to 1941

Contributions from the Gray Herbarium of Harvard University.
 Bulletins, Museum of Comparative Zoology, Harvard.
 Occasional Papers, The University of Michigan.
 Revista de Ciencias, Peru.
 Annals of the Museum of Natural History, Buenos Aires.
 Publications of the San Miguel Observatory, Argentine.
 Annals of the School of Mines, Brazil.
 Publications and Bulletins of the School of Mines, Buenos Aires.
 Bulletins of the Museum of Natural History, Montevideo.
 The Philippine Journal of Science, Manila.
 Bulletins de la Societe Etudes Oceaniques, Tahiti.
 Bulletins L'Institut Oceanographie, Monaco.
 Bulletins of the Bureau of the Chinese Delegation, Genève.
 Publications of the Adviser of Norwegian Fisheries, Bergen.
 Bulletins of the University Library, Uppsala, Sweden.
 Publications of Gothenburg Ethnographical Museum, Sweden.
 Proceedings of the Physiographic Society at Lund.
 Proceedings of the Rijks Ethnograph Museum, Leiden, Holland.
 Bulletins and Memoirs of the Museum of Nat. History, Bruxelles.
 Comptes Rendus de l'Academie des Sciences de l'U.S.S.R., Moscow.
 Transactions of the Institute of Marine Fisheries, Moscow.
 Problems of Soviet Geology, Central Geological Library, Leningrad.
 Publications of the Society for International Cultural Relations, Tokyo.
 Publications of the Kyoto Imperial University, Japan.
 Bulletins of the Science Society of China, Nanking.
 Bulletins of the Metropolitan Library, Pekin.
 National Institute of Zoology and Botany, Shanghai.

REPORTS.

Dominion Laboratory.
 Auckland Acclimatisation Society.
 The Canterbury Museum.
 Wanganui Public Museum.
 Otago Public Museum.
 National Art Gallery and Dominion Museum.
 Department of Scientific and Industrial Research, Wellington.
 Fisheries Department, Wellington.
 Avicultural Society of New Zealand.
 Wellington Philosophical Society.
 Southland Museum Trust Board.
 Nelson Philosophical Society, New Zealand.
 Canterbury University College.
 Canterbury Branch of the Royal Society of New Zealand.
 Wellington Branch of the Royal Society of New Zealand.
 Otago Branch of the Royal Society of New Zealand.
 Otago University Library.
 Geological Survey of Western Australia.
 United States National Museum.
 The Bernice P. Bishop Museum, Honolulu.
 The Carnegie Corporation of New York.
 Haslemere Educational Museum.
 Public Library and Museum, Derby.
 Free Public Museum, Liverpool.
 Queen Victoria Museum, Launceston, Tasmania.

Belfast Museum and Art Gallery.
The American Museum of Nat. History, New York.
The South African Museum.
The Rhodesian Museum.
National Museum of Southern Rhodesia.
The Fisheries and Marine Biological Survey, Pretoria.
The Egypt Exploration Society.
The Botanic Garden, Singapore.
National Research Council of Japan.
The Discovery Committee: Discovery Investigations.
Sir Douglas Mawson: Antarctic Expedition Reports.
Gothenberg Museum, Sweden: Ethnographical Studies.
The Carlsberg Foundation: Dana Reports.

Books have been presented by Mr. Wiley, Mr. C. R. Ford, Mr. C. J. O'Keefe, Mr. B. Brequart, Miss Dallas Cowan, Mr. E. A. Clive, Mr. McCann, Mr. Moon, Mr. A. W. B. Powell, Mr. Kent, Mr. F. E. Andrews, Rev. Father Lavelle, Mr. C. Brooks, Capt. G. Rowland Hutchinson, Mrs. G. W. Stevenson, Mr. Maurice Priestly, Mr. J. B. Johnston, and Mrs. Griffin.

ACCESSIONS, 1940-41.

Miss Bertha Adams: Red seaweed from The Mount, Tauranga.
Mr. H. Alcock: Scorpion spider.
Mr. L. W. Alexander: Oak cabinet, ivory inlaid, probably Hispano-Mooresque. Deposited. Chinese silk embroidery.
Mrs. H. Aris: Five stone adzes; one shell adze from Eastern Polynesia.
Mr. P. B. Armitage: Dancing mask decorated with cockatoo and cassowary feathers from New Britain.
Mr. H. Atkins: Fern bird's nest with eggs.
Auckland Public Library: "Special Orders of the Day" of 8th and 11th June, 1917, by Field Marshal Sir Douglas Haig following capture of Messines Ridge.
H. Baber Estate: Four-barrelled pistol by Tipping & Lawden.
Miss J. Bartley: Piece of stone from the Great Wall of China.
Mrs. A. Bell: Old hand sewing machine, c. 1859.
Mr. B. Biggs: Rough kilt made from *ti-kouka* leaves.
Mr. Norman Brett: German postal flag from the P.O. at Apia.
Mr. W. J. Brooks: English and Chinese pottery and porcelain.
Mr. R. A. S. Browne: Stone adze from Cook Islands.
Mr. W. E. Browne: Point for bird spear fashioned from stingray barb. Deposited.
Mr. A. D. Buies: Stone adze from south shore of Manukau Harbour.
Buffalo Museum of Science: Collection of Melanesian ethnographical specimens. Exchange.
Miss M. V. Bullock: Collection of Melanesian and Polynesian ethnographical specimens.
Mr. Alfred Callister: Greenstone toki.
Mrs. J. P. Campbell: Collection English and Dresden china.
Canterbury Museum: Cast of crested image, original from Hale-o-Keawe at Honaunau, Hawaiian Islands. Exchange.
Miss J. Cardno: Nautilus shells carved by New Caledonian convicts.
Captain W. F. Collins: Collections Chinese antiquities.
Mr. H. Cowie: Kiwi nest and eggs.
Cornwall Park School: Great crested grebe.
Mr. W. J. Crowther: Blue jay.

AIM Ann Report

1940 to 1941

- Mrs. L. B. Cowell: Photograph of an early picture of Auckland, 1842.
 Mr. R. L. Darley: Brown gecko.
 Sir Ernest Davis: Two examples of old Egyptian papyrus inscribed with hieroglyphic and hieratic script.
 Mr. A. B. Deeming: Stone adze and sandstone rubber.
 Mrs. J. E. Dicketts: Solomon Is. shield.
 Mrs. Digby: Golden pheasant.
 Mr. Alan A. Dignan: Powder horn.
 Miss Duder: Wooden club inlaid with shell from Solomon Islands.
 Mr. D. I. Elliott: *Piupiu*—Maori waist mat. Deposited.
 Sir Albert Ellis: Shell adze, shark tooth knife, hair neck ornament, from Ocean Island.
 Lady Ellis: Two black lacquer pots, with gold medallions, from Japan.
 Mr. J. Emtage: Large *ko* from Motiti Island.
 Mr. A. V. Finlay: Kava bowl and gun stock club from Fiji; three wooden clubs from Solomon Islands.
 Mr. V. F. Fisher: Three potsherds from Puye ruins, New Mexico.
 Mr. C. A. Fleming: Three sooty shearwaters, grey-headed mollyhawk and giant petrel, wood duck.
 Mr. C. E. Ford: Talc specimen.
 Mr. C. Reginald Ford: White and blue salt-glaze teapot, Castleford ware. Sledging and messing equipment used by donor in Captain R. F. Scott's first Antarctic expedition.
 Mr. F. J. Foy: Collection of mounted photographs, mainly of Maoris.
 Mr. E. T. Frost: Toki and chisel.
 Mr. E. T. Frowde: Thirteen dietary charts for prisoners of war; three camp magazines; two lithographs made by prisoners of war.
 Mrs. A. W. Gillies: Sevres plate with Napoleon crest; Chinese mirror. On behalf of the late Mr. A. W. Gillies.
 Mr. H. Goldie: Stone adze from Waiheke Island.
 Mr. Gott: Three specimens of marine animals from Astrolabe Reef.
 His Excellency Viscount Galway: Limoges enamel plaque, 18th century.
 Mr. A. Graham: Two wooden fishhooks; stone adzes; polishing stone; pointed stick and sinker.
 Mr. G. Graham: Four iron-pointed kahawai hooks; tapa cloth; seed necklace. Deposited.
 Mr. L. Halliday: Collection Paleolithic implements from Kent.
 Mr. G. H. Hammick: Egg bomb and rifle grenade: Vimy Ridge.
 Mrs. A. Hammond: Pair of English thumbglasses, 17th century.
 Mr. J. L. Hester: Gold watch, silver watch, and collection of Maori specimens.
 Hickson family: Collection of ethnographical specimens from N.Z. and the Pacific Islands.
 Mr. T. E. Hickson: Thirteen trench maps.
 Miss Gwen Hills: Small wooden bowl carved from knot of a tree; bone *poria*.
 Mrs. W. R. Holmes: One of Signor Marconi's first experimental "coherers"; German ensign and white ensign from H.M.S. "Iris" flown at time of capture of von Luckner; von Luckner's working chart and photos illustrating the episode.
 Mr. A. Howe: Dulcimer and stand.
 Mr. C. P. Hugonin: Collection of Tasmanian birds' eggs; mineral specimens from Antarctica; two Maori stone adzes; rimer; Eastern N. American Indian shaping knife; flint-lock time fire-lighter.
 Miss H. A. Jordan: Two medals: 1898 Exhibition and Diamond Jubilee of Queen Victoria.
 Mr. A. K. Lamb: Two brown geckos.

AIM Ann Report 1940 to 1941

- Mr. J. A. Leonard: Stone adze from Onewa Point.
 Mr. V. W. Lindauer: Collection of N.Z. seaweeds.
 Mrs. Logan: Two bitterns.
 Mr. F. E. Lowe: Semi-albino N.Z. pigeon.
 Mr. Lucas: Cock-of-the-rock.
 Mr. F. A. Luke: Maori *ko*.
 Mr. James Madill: Boer newspaper published by Gen. Plumer's forces on capture of Pietersburg Press: .303 calibre magazine Lee Enfield rifle, saddlery, bandoliers and mess gear used by the donor in the South African War.
 Miss Q. E. Marks: Collection ethnographical specimens from New Guinea.
 Mr. A. J. S. Martin: Sand scarab.
 Mr. J. R. Middleton: Albino pheasant. Deposited.
 Mr. M. L. Millett: Wooden fern-root beater and digging stick.
 Milwaukee Public Museum: Stone adze from Pitcairn Island. Exchange.
 Mr. D. B. Monro: Jamaica penny, 1882.
 Mr. A. Montgomery: Melanesian ethnographical specimens from Mandated Territory.
 Mr. Moon: Five printer's blocks; one bayonet.
 Mr. G. D. Moor: Junior cadet's uniform and bandolier.
 Mrs. H. Nelson: Kiwi chick.
 Mr. R. Newling: Forked leaves of rewarewa.
 Mr. R. Noton: Two tambua.
 Mr. James O'Neill: Bottle glass spear point.
 Otago University Museum: Three pottery bowls from Bronze Age tombs 1-4 at Vounos, Cyprus. Exchange.
 Mrs. E. Paramore: Ethnographical specimens from New Guinea and Niue Island.
 Miss A. E. Philleul: Pair of quartz spectacles.
 Mr. T. M. Playfair: Ethnographical specimens from Ocean Island; fish-hook from Marshall Islands; collection of shells from Queensland.
 Mr. N. H. Potts: Stone adze from the Moa Bone Point Cave, Sumner.
 Mr. A. W. B. Powell: Two steel axe heads; roasted copper ore ingot from old smelting house, Kawau Island.
 Mr. A. T. Pycroft: Photograph of Lieut.-Com. W. E. Sanders, V.C.
 Mr. G. W. Quensell: Three eggs of Niuafoou megapode.
 Mr. A. Richardson: Mineral specimens from Port Pegasus.
 Mr. J. D. Richardson: Collection of botanical and Maori negatives by Josiah Martin; photographic negatives on Kauri timber industry.
 Mr. L. A. Savill: Sandstone rubber.
 Messrs. R. T. & J. C. Sawers: Gold mounted meerschaum pipe presented by H.R.H. Prince of Wales (later King George IV.) to the Earl of Sligo.
 Mr. R. A. Scobie: Stone rimer.
 Mr. H. W. Scott: Collection of bronze coins.
 Mr. I. T. Scott: Sextant and whaler's marlin spike of whalebone.
 Mr. Simmons: "Iguana" skin.
 Mr. T. Skeates: Grey warbler.
 Mr. J. D. Smith: Green gecko.
 Mr. W. H. Smith: Bulldog or soldier ant (*Myrmecia forficata*).
 Mr. S. L. Smith: Three stone axes from Nigeria.
 Mr. P. M. B. Sommer: Collection coins, china, meerschaum pipes, boxwood inkwell, lustre ware mustard pot.
 Mr. J. Stewart: Medal commemorating the visit of H.R.H. Prince of Wales to N.Z. in 1920; Italian medal commemorating the unity of Italy.
 Mr. R. Stout: Organ accordion made by Frost, London.
 Mrs. Tonkin: Three stone adzes.
 Mr. L. H. Trenn: Ethnographical specimens from Maupiti.

AIM Ann Report 1940 to 1941

Mr. J. Tucker: Collection copper and silver coins.
Mr. J. D. Twentymen: Bittern.
Professor A. Wall: Field notebooks.
Mrs. H. Wrathall: Turtle-shell fish-hook found while excavating at Man-
gonui.
Mr. D. R. Williams: Boundary stone; bone comb.
Mr. Willis: Grey-faced petrel; white-capped mollyhawk.
Mrs. H. Wright: Old oil lamp.
Mr. A. G. Yardley: File of the "Peninsula Press"; copy of the "Dardanelles
Driveller." and printing from H.M.S. "Renown."
Auckland Zoological Park: Chimpanzee; mandrill; wedge-tailed eagle.

Members of the Auckland Institute.

(Members are requested to advise the Secretary of any change
of Address)

*On Military Service.

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Sir Cecil Leys.

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AIM Ann Report 1940 to 1941

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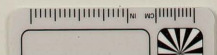
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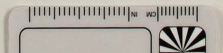
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AIM Ann Report
1940 to 1941



AIM Ann Report
1940 to 1941



AIM Ann Report
1940 to 1941

